Welcome to the MTL "Road-Show!"









Our Mission

"To Deliver Excellent, Timely,

and Cost Effective Materials

Engineering Services"

MTL Quality Assurance Program

National Voluntary Laboratory Accreditation Program



Nationally Recognized Test Procedures









• Experienced, Certified Personnel









Testing and Inspection Services

- Hot Mix Asphalt (HMA) Testing
- Portland Cement Concrete Testing
- Quarry Products Testing
- Treated Base Testing (LTB, CTB, Soil Cement)
- Compaction Testing of HMA, Soils, and Aggregates
- •Inspection of Reinforced Concrete Pipe (36" or greater)





Engineering Services

- •Review of Plans and Specifications
- Review of Materials Submittals
- Geotechnical Services
 - Pavement Design
 - Log of Boring
 - Soil Classification (USCS)
 - Lime Treated Base Design





Services We Do Not Provide

Soils Reports for Buildings

Hazardous Materials Investigations

Environmental Engineering Services

One test is worth 1,000 expert opinions!



Inferior concrete and a construction job done "on the cheap, but not illegally" are blamed for the collapse of a school in Italy in 2002.



NASA's "Faster, Better Cheaper" philosophy has been called into question after a series of failed missions, including the failed Mars Climate Orbiter.



The concrete used to cover the core at Chernobyl was "hastily poured," and is now leaking radiation and threatens to collapse.



The Tropicana parking structure in Atlantic City collapsed while under construction in 2003. OSHA reports indicate that the contractor had switched to a cheaper and quicker construction plan.



Cost Estimates

The MTL will develop written cost estimates for large projects when requested.

Estimates Include:

CSJ staff time necessary to provide material Quality Assurance for the project

Citywide overhead charges included in staff hourly rates

Contingency of five percent for additional testing above quantities estimated

Estimates DO NOT Include:

Plan and Specification review and Pavement Design work

Night work or holiday work

Additional testing beyond 5% Contingency

Cost Estimate Example

ESTIMATE FOR TESTING AND INSPECTION SERVICES 60-INCH BRICK INTERCEPTOR REPLACEMENT PH.1B MATERIALS TESTING LABORATORY

Prepared By: Rino B. Biton

Date

Construction Contract \$

16,573,661

EARTHWORK

Trench - Select Native Fill

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Quantity	Type of Test	Hrs/Trip	# of Employees	Cost/Hour	Total Hours
40	Compaction Testing (CAL 231)	3	2	\$73.00	240

Lab Work

1	Quantity	Type of Test	Cost/Unit
	40	Max. Density Curve (CAL 216)	\$250.00
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Submittal Review

Quantity	Type of Test	Cost/Unit
5	Review of Submittal	\$180.00

SUBTOTAL FOR SELECT NATIVE FILL

Trench - Aggregate Subbase

Field Wor

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Quantity	Type of Test	Hrs/Trip	# of Employees	Cost/Hour	Total Hours
7	Sampling (CAL 201)	3	1	\$73.00	21
30	Compaction Testing (CAL 231)	3	2	\$73.00	180

Lab Work

Quantity	Type of Test	Cost/Unit
30	Max: Density Curve (CAL 216)	\$250.00
7	Sand Equivalent (CAL 217, 3 specimens)	\$250.00
7	Sieve Analysis (CAL 202, combined)	\$100.00

Submittal Review

Quantity	Type of Test	Cost/Unit
5	Review of Submittal	\$180.00

SUBTOTAL FOR AGGREGATE SUBBASE

Lab Management System (LMS)

The MTL uses an extensive database to track all labor costs for its projects.



City of San José, California

Materials Testing Laboratory 1661 Senter Road, Building A San José, CA 95112 (408)998-6015 Fax: (408)971-4880



Charge Report - Weekly (w/o OH) 05/09/2005 to 05/15/2005

Monday, May 16, 2005 Page 1 of 1

Charge #	Project	Hourly Cost	Total Hours	Total Cost
001000611	ES-MTL Gf Non Reimburse	\$33.08	43.0	\$1,422.43
001000663	NVLAP QA Funding	\$39.25	2.0	\$78.50
001121315	Towers Lane Improvement Project	\$40.13	6.0	\$240.76
001162700	Slurry Seal-Prep Work Sec16	\$36.42	44.0	\$1,602.69
030060	Development Project Submittal Review	\$39.25	4.0	\$157.00
030073	Pavement Design-Lab-Non Res	\$36.54	78.0	\$2,850.16
030093	Inspection-Lab-Non Res	\$33.02	113.0	\$3,730.75
150000116	Compensated Absence	\$37.56	103.0	\$3,868.75
375117453	Penitencia Creek Reach 2 Ph 1 Dev	\$20.12	1.0	\$20.12
429065295	Senter Rd Widening-Singleton to Monterey	\$34.31	50.5	\$1,732.86
429118255	Story Rd. Widening (Senter - McLaughlin)	\$39.25	2.0	\$78.50
429133395	Bailey Av. Extension - Seg C @ Monterey	\$22.26	6.0	\$133.56
429135545	Civic Plaza / Fifth Street Streetscape	\$34.55	70.0	\$2,418.79
450109883	Psm221 King Rd & Story Rd Impv	\$40.57	4.0	\$162.26
450136615	3rd /4th St. Couplet Conversion	\$38.53	10.0	\$385.31
469131233	Albany-Kiely Storm Drain Impr Ph. II	\$19.18	4.0	\$76.72
471117109	Camden Multi-service Community Center	\$39.87	28.0	\$1,116.36
472129913	Cambrian Branch Library	\$40.49	7.0	\$283.43
472136345	Evergreen Branch Library	\$35.20	13.0	\$457.61
520127705	SJIA North Concourse Building Site Pkg1	\$38.92	10.0	\$389.16
527135413	Renzel Airfield Improvements 2005	\$40.72	40.0	\$1,628.75
545108163	Hwy 87 Sanitary Sewer Relocation PH II	\$35.76	20.0	\$715.24
545131055	University Area Sanitary Sewer Rehab	\$32.08	27.0	\$866.06
777773	Pavement Design/Lab-Res	\$35.68	53.0	\$1,891.12
	Repo	ort Totals: \$35.62	738.5	\$26,306.89

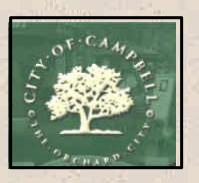
Our Clients



- •Public Works Department
 City Facilities Architectural Services
 Engineering and Construction Services
 Transportation and Development Services
- Department of Transportation
- Environmental Services
 Department
 Water Pollution Control Plant
 San Jose Municipal Water



San Jose International Airport Master Plan Team



City Of Campbell



Valley Transportation
Authority

MTL Work Request Form

Download from our website
(http://www.sanjoseca.gov/publicWorks/EngServ/MTL/instructions.htm)
OR the City Intranet.

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MTL Home Page

The MTL Web Site provides information about our services and current projects.



